Please	type	a plus si	igr	1 (+	) in	side	th	is	box	<b></b>	
		_		_							

PTO/SB/05 (03-01)

Please type a plus sign (+) inside this box

+ Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## UTILITY **PATENT APPLICATION**

Attorney Docket No. NA04 First Inventor Sunao Ishizaki

PATENT APPLICATION	First II	st Inventor Sunao Ishizaki						
TRANSMITTAL	Title	DRIVE CIRCUIT OF INK JET HEAD, etc.						
(Only for new nonprovisional applications under 37 CFR 1.53(b))	ess Mail Label No.							
APPLICATION ELEMENTS	Box Patent Application ADDRESS TO: Commissioner for Patents							
See MPEP chapter 600 concerning utility patent application cor	ntents.			Washington, DC 20231				
X Fee Transmittal Form (e.g., PTO/SB/17)     (Submit an original, and a duplicate for fee processing)     Applicant claims small entity status     See 37 CFR 1.27.  3. X Specification [Total Pages] 18     (preferred arrangement set forth below)         - Descriptive title of the invention         - Cross Reference to Related Applications         - Statement Regarding Fed sponsored R & D         - Reference to sequence listing, a table, or a computer program listing appendix         - Background of the Invention         - Brief Summary of the Invention	3 ]	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (If applicable, all necessary)  a Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i CD-ROM or CD-R (2 copies); or ii. paper  c Statements verifying identity of above copies  ACCOMPANYING APPLICATIONS PARTS						
<ul> <li>Brief Description of the Drawings (if filed)</li> </ul>		9. X	Assignment	Papers (cover sheet & document(s))				
- Detailed Description - Clarm(s) - Abstract of the Disclosure		10.		3(b) Statement Power of Attorney				
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets	7 ]	11	English Tra	nslation Document (if applicable)				
5. Oath or Declaration [Total Pages	1 ]	12. X	Statement (IDS)/PTO-1449 Limit Citations					
a X Newly executed (original or copy)		13 Preliminary Amendment						
b. Copy from a prior application (37 CFR 1.63(d))  (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		14. X Return Receipt Postcard (MPEP 503) (Should be specifically iternized)  15. X Certified Copy of Priority Document(s) (if foreign priority is claimed)  16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  17. Other.						
6. Application Data Sheet. See 37 CFR 1 76								
18. If a CONTINUING APPLICATION, check appropriate box, and Data Sheet under 37 CFR 1 76.  Continuation  Divisional  Continuation  Prior application information: Examiner  For CONTINUATION or DIVISIONAL APPS only: The entire under Box 5b, is considered a part of the disclosure of the accoreference. The incorporation can only be relied upon when a part of the disclosure of the accoreference.	disclosur ompanyin ortion has	CIP) of pr e of the prio g continuati s been inady	ior applicatio  Group / r application ion or divisio vertently omit	n No  / Art Unit: , from which an oath or declaration is supplied nal application and is hereby incorporated by tted from the submitted application parts.				
19. COR	RESPO	NDENCE	ADDRESS					
X Customer Number or Bar Code Label		24998		X Correspondence address below				
DICKSTEIN SHAPIRO MORIN	& OS	HINSKY	LLP					
Address 2101 L Street NW								
City Washington Sta	ite	DC Zip Code 20037-1526						
Country US Tele	ephone	(202)7	85-9700	Fax (202) 887-0689				
Name (Print/Type) Mark J. Thronsop	)	Regi	stration No (	Attorney/Agent) 33,082				
Signature	1			Date January 18, 2002				

The state about their parts state and other their their state others.

Harry Harry with the Harry Harry

	Co	Complete if Known						
FEE TRANSMITTAL	Application Number	Not Yet Assigned January 18, 2002						
for FY 2002	Filing Date							
Patent fees are subject to annual revision.	First Named Inventor	Sunao Ishizaki						
Patent rees are subject to annual revision.	Examiner Name	Not Yet Assigned						
Application claims small entity status. See 37 CFR 1.27	Group Art Unit	N/A						
AMOUNT OF PAYMENT (\$) 948.00	Attorney Docket No.	NA04						

	Application claims small entity status. See 37 CFR 1.27						_ [	Group Art Unit				N/A		
TOTAL AMOUNT OF PAYMENT (\$) 948.00							Attorney Docket No. NA04							
METHOD OF PAYMENT (check all that apply)							FEE CALCULATION (continued)							
X Check Credit Money Other None 3.								3. ADDITIONAL FEES						
Cold Cold														
X Deposit Account							Large	Entity	Smal	I Entity				
Deposit Account Number						Fee Code	Fee	Fee Code	Fee (\$)	-	Fee Description	Fee Paid		
Deposit Dickstein Shapiro Morin & .							105	130	205	65	Surcharge	e – late filing fee or oath		
Name Oshinsky LLP							127	50	227	25	Surcharge	e - late provisional filing fee or cove	r	
The Con	nmiss	ioner is	hereb		d to: (check a	Il that apply)	'-'				sheet			
L	•	ee(s) ind		L		overpayments	139	130	139	130	Non-Engli	ish specification		
	arge a		onal fee	(s) during the	pendency of t	this	147	2,520	147	2,520	For filing a	request for ex parte reexamination		
			cated h	elow <b>excent</b>	for the filing t	fee	112	920*	112	920*		ng publication of SIR prior to		
	-	` ,		it account			113	1,840*	113	1,840*	Examiner Requestir Examiner	ng publication of SIR after		
		F	EE C	ALCULA7	ION		115	110	215	55	Extension	for reply within first month		
1. BAS	IC F	ILING	FEE				116	400	216	200	Extension	for reply within second month		
Large Er	ntity	Small	Entity				117	920	217	460	Extension	for reply within third month		
	Fee	Fee Code	Fee	Fee De	scription	Fee Paid	118	1,440	218	720	Extension	for reply within fourth month	1	
	( <b>\$)</b> 740	201	( <b>\$)</b> 370	Utility filing	fee	740 00	128	1,960	228	980	Extension	for reply within fifth month		
	330	206	165	Design filing	g fee		119	320	219	160	Notice of	Appeal		
107	510	207	255	Plant filing	fee		120	320	220	160	Filing a br	rief ın support of an appeal		
108	740	208	370	Reissue filu	ng fee		121	280	221	140	Request f	for oral hearing		
114	160	214	80	Provisional	filing fee		138	1,510	138	1,510	Petition to	institute a public use proceeding		
SUBTOTAL (1) (\$) 740.00						140	110	240	55	Petition to	o revive – unavoidable			
				BIOIAL (I	(4)	140.00	141	1,280	241	640	Petition to	revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE						142	1,280	242	640	Utility issu	ue fee (or reissue)			
				Extra Claims	Fee from below	Fee Paid	143	460	243	230	Design is:	sue fee		
Total Clai	ims	8	-20** =	:	]-	0.00	144	620	244	310	Plant issu	ue fee		
Independ	ent [	5	-3** =	2 x	84.00 =	168.00	122	130	122	130	Petitions t	to the Commissioner	-	
Claims Multiple D	ı Depen	dent					123	50	123	50	Processin	ng fee under 37 CFR 1.17(q)		
				L		· L	126	180	126	180	Submissi	on of Information Disclosure Stmt		
	Fee	Small I	Fee	F	ee Descriptio	n .	581	40	581	40		g each patent assignment per	40.00	
	(\$)	Code	(\$)				1		l			(times number of properties) ubmission after final rejection		
	18 84	203 202		Claims in exc Independent	ess of 20 claims in exc	ess of 3	146	740	246	370	(37 CFR	1 129(a))		
	280	204		•	endent claim,		149	740	249	370		additional invention to be d (37CFR 1 129(b))		
	84	209			dependent cl	•	179	740	279	370		for Continued Examination (RCE)		
	ļ			over origin	al patent		169	900	169	900		for expedited examination		
110 18 210 9 ** Reissue claims in excess of 20 and over original patent						1	fee (spe	ſ		or a desig	gn application			
ı	Į		CI IC				1		•			CURTOTAL (2 (A)	40.00	
**050	nher	nrevious		TOTAL (2) if greater: F	(\$) or Reissues,	168 00 see above	^Red	ucea by	basic i	Filing Fee	e Palo	SUBTOTAL (3 (\$)	40.00	
Oi Hui	וויטעוו	o, o vious	., paid,	n grouter, r	C 101000005,		<u> </u>							

SUBMITTED BY					Complete	(if applicable)
Name (Print/Type)	Mark J. Thronson		Registration No. (Attorney/Agent)	33,082	Telephone	(202) 775-4742
Signature	ma	M	~		Date	January 18, 2002